

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 60-107022
(43)Date of publication of application : 12.06.1985

(51)Int.Cl.

G02F 1/133
G02F 9/00

(21)Application number : 58-215728
(22)Date of filing : 15.11.1983

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(54) COLOR LIQUID-CRYSTAL DISPLAY DEVICE

(57)Abstract:

PURPOSE: To display an image of high display quality with good color balance by arranging picture elements of red, green, and blue in a color filter as much as 1:2:1 proportion and obtaining white as the composite color when all picture elements are turned on.

CONSTITUTION: Picture elements of green having a large coefficient of lightness are twice as many as those of red and blue to decrease relatively the ratio of picture elements which are seen dark. A basic repetition unit of 2×2 picture elements is employed to reduce the anisotropy of spatial resolution, so that no Moire fringe appears in a specific direction. Picture elements of blue are not arranged successively, so no dark fringe pattern is formed. The lateral period is set to two picture elements to use one line memory each for an upper and a lower part and only one color switch circuit is only necessary before each line memory, thereby simplifying a driving circuit.



LEGAL STATUS

[Date of request for examination]
[Date of sending the examiner's decision of rejection]
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

**[Number of appeal against examiner's
decision of rejection]**

**[Date of requesting appeal against
examiner's decision of rejection]**

[Date of extinction of right]

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